## What is claimed is:

1. An electrophotographic photoconductor, comprising: an electroconductive substrate; and

a photoconductive layer on or above the electroconductive substrate, the photoconductive layer comprising:

a cross-linked surface layer which comprises:

a cured tri- or more-functional radical polymerizable monomer without having a charge transporting structure; and a cured mono-functional radical polymerizable compound having a charge transporting structure,

wherein the cross-linked surface layer has a surface roughness Rz of 1.3  $\mu m$  or less.

- 2. An electrophotographic photoconductor according to Claim 1, wherein the cross-linked surface layer has a surface roughness Rz of 1.0  $\mu m$  or less.
- 3. An electrophotographic photoconductor according to Claim 1, wherein the cured tri- or more-functional radical polymerizable monomer without having a charge transporting structure has a functional group selected from the group consisting of an acryloyloxy group and a methacryloyloxy group.
  - 4. An electrophotographic photoconductor according to

Claim 1, wherein the cured tri- or more-functional radical polymerizable monomer without having a charge transporting structure has a ratio (molecular weight/number of functional group) of molecular weight to the number of functional group of 250 or less.

- 5. An electrophotographic photoconductor according to Claim 1, wherein the cured mono-functional radical polymerizable compound having a charge transporting structure has a functional group selected from the group consisting of an acryloyloxy group and a methacryloyloxy group.
- 6. An electrophotographic photoconductor according to Claim 1, wherein the charge transporting structure of the cured mono-functional radical polymerizable compound having a charge transporting structure is a triarylamine structure.
- 7. An electrophotographic photoconductor according to Claim 1, wherein the cured mono-functional radical polymerizable compound having a charge transporting structure is represented by one of the formulae (1) and (2):

$$R_1 O Ar_3$$
 $CH_2 = CO - (Z)_m - Ar_1 - X - Ar_2 - NAr_4$ 
(1)

$$CH_2 = \overset{R_1}{C} - \overset{O}{C}O - (Z)_n - Ar_2 - \overset{Ar_3}{N}$$

$$Ar_4$$
(2)

wherein, R<sub>1</sub> represents a hydrogen atom, a halogen atom, an alkyl group which may be substituted, an aralkyl group which may be substituted, a cyano group, a nitro group, an alkoxy group, -COOR<sub>7</sub> (R<sub>7</sub> represents a hydrogen atom, an alkyl group which may be substituted, an aralkyl group which may be substituted or an aryl group which may be substituted), a halogenated carbonyl group or CONR<sub>8</sub>R<sub>9</sub> (R<sub>8</sub> and R<sub>9</sub> represent a hydrogen atom, a halogen atom, an alkyl group which may be substituted, an aralkyl group which may be substituted or an aryl group which may be substituted or an aryl group which may be substituted, which may be identical or different);

Ar<sub>1</sub> and Ar<sub>2</sub> represent a substituted or unsubstituted arylene group, which may be identical or different;

Ar<sub>3</sub> and Ar<sub>4</sub> represent a substituted or unsubstituted aryl group, which may be identical or different;

X represents a single bond, a substituted or unsubstituted alkylene group, a substituted or unsubstituted cycloalkylene group, a substituted or unsubstituted alkylene ether group, an oxygen atom, a sulfur atom or a vinylene group;

Z represents a substituted or unsubstituted alkylene group, a substituted or unsubstituted alkylene ether group or an alkyleneoxycarbonyl group; and

"m" and "n" represent an integer of 0 to 3.

8. An electrophotographic photoconductor according to Claim 1, wherein the cured mono-functional radical polymerizable compound having a charge transporting structure is represented by the following formula (3):

wherein, "o," "p" and "q" each represent an integer of 0 or 1; Ra represents a hydrogen atom or a methyl group;

Rb and Rc represent an alkyl group having 1 to 6 carbon atoms, wherein each of Rb and Rc may be different when there are two or more Rb and Rc, respectively;

"s" and "t" represent an integer of 0 to 3; and

Za represents a single bond, a methylene group, an ethylene group,

$$-CH_2CH_2O-$$
 ,  $-CHCH_2O-$  or  $-CH_2CH_2 CH_2CH_2-$ 

- 9. An electrophotographic photoconductor according to Claim 1, wherein the cured tri- or more-functional radical polymerizable monomer without having a charge transporting structure is 30% to 70% by weight, based on the total amount of the cross-linked surface layer.
- 10. An electrophotographic photoconductor according to Claim 1, wherein the cured mono-functional radical polymerizable compound having a charge transporting structure is 30% to 70% by weight, based on the total amount of the cross-linked surface layer.
- 11. An electrophotographic photoconductor according to Claim 1, wherein the photoconductive layer comprises:
  - a charge generation layer;
  - a charge transport layer; and

the cross-linked surface layer laminated on or above the electroconductive substrate in this order.

- 12. An electrophotographic photoconductor according to Claim 11, wherein the charge transport layer comprises a polymer charge transport material.
- 13. An electrophotographic photoconductor according to Claim 12, wherein the polymer charge transport material is a polycarbonate having a triarylamine structure in the main chain or side chain thereof.
- 14. An electrophotographic photoconductor according to Claim 1, wherein the cross-linked surface layer is cured by one of heating and light irradiation.
- 15. An electrophotographic photoconductor according to Claim 11, wherein the cross-linked surface layer has a thickness of from 1  $\mu m$  to 10  $\mu m$  .
- 16. An electrophotographic photoconductor according to Claim 11, wherein the thickness is from 2  $\mu$ m to 8  $\mu$ m.
- 17. An electrophotographic photoconductor according to Claim 11, wherein the cross-linked surface layer is insoluble in an organic solvent.

18. A process for forming an image, comprising:
charging an electrophotographic photoconductor;
exposing the electrophotographic photoconductor which is
charged to a recording light so as to form an electrostatic latent
image;

developing the electrostatic latent image by a developing agent so as to visualize the electrostatic latent image and form a toner image; and

transferring the toner image formed by developing onto a transfer material,

wherein the electrophotographic photoconductor comprises: an electroconductive substrate;

a photoconductive layer on or above the electroconductive substrate, the photoconductive layer comprising: a cross-linked surface layer which comprises:

a cured tri- or more-functional radical polymerizable monomer without having a charge transporting structure; and

a cured mono-functional radical polymerizable compound having a charge transporting structure,

wherein the cross-linked surface layer has a surface roughness Rz of 1.3  $\mu m$  or less.

19. An apparatus for forming an image, comprising: an electrophotographic photoconductor;

a charger to charge the electrophotographic photoconductor; an exposer to expose the electrophotographic photoconductor charged by the charger to a recording light to form an electrostatic latent image;

a developing unit to supply a developing agent to the electrostatic latent image to visualize the electrostatic latent image and form a toner image; and

a transferring unit to transfer the toner image formed by the developing unit on a transfer material,

wherein the electrophotographic photoconductor comprises: an electroconductive substrate;

a photoconductive layer on or above the electroconductive substrate, the photoconductive layer comprising:

a cross-linked surface layer which comprises:

a cured tri- or more-functional radical polymerizable monomer without having a charge transporting structure; and

a cured mono-functional radical polymerizable compound having a charge transporting structure,

wherein the cross-linked surface layer has a surface roughness Rz of 1.3  $\mu m$  or less.

20. A process cartridge for an image forming apparatus, comprising:

an electrophotographic photoconductor; and

at least one selected from the group consisting of:

a charger to charge the electrophotographic photoconductor;

a developing unit to supply a developing agent to an electrostatic latent image formed by exposure on the electrophotographic photoconductor to visualize the electrostatic latent image and form a toner image;

a transferring unit to transfer the toner image formed by the developing unit on a transfer material;

a cleaning unit to remove toner remaining on the electrophotographic photoconductor after transferring; and

a discharging unit to remove the latent image on the photoconductor after transferring so as to form a monolithic structure ,

wherein the process cartridge is adapted to be attached to and detached from a main body of the image forming apparatus, and

the electrophotographic photoconductor comprises:

an electroconductive substrate;

a photoconductive layer on or above the electroconductive substrate, the photoconductive layer comprising:

a cross-linked surface layer which comprises:

a cured tri- or more-functional radical polymerizable monomer without having a charge transporting structure; and

a cured mono-functional radical polymerizable compound having a charge transporting structure,

% wherein the cross-linked surface layer has a surface roughness Rz of 1.3  $\mu m$  or less.